

TECHNICAL PRODUCT SHEET

NBB

LED retrofit

LQ CRYSTAL 230-240V A60 4,5W 3000K E27

Order Number
250580010

EAN13
8595209905550

ILCOS
DRAA/F-4,5-230/240-E27-60

CE



General information

Product description:	LQ CRYSTAL 230-240V A60 4,5W 3000K E27
Model/Description:	LED retrofit
Finish:	Jednopaticová
Brand/Manufacturer:	NBB
Nominal voltage:	240 V
Nominal service life:	20.000 h.
Material:	Sklo/Glass

Physical characteristics

Bulb design:	A60 CLEAR
Cap:	E27
Number of chips:	23
Type of chip:	2835 POWERLITE
Dimensions:	Ø60 x 108 mm
Packing method:	1/1
Weight net:	30 g
Weight gross:	56 g

Electrical characteristics

Nominal wattage:	4,5 W
Rated power:	4,1 W
Rated current (A):	19 mA
Operating voltage:	220-240 V
Endurance:	300 V

Type of Voltage:	AC
Lowest permitted operating voltage in the circuit:	150 V
Direct connection to the mains:	Ano

Working conditions

Type of light source:	LED
Type of ballast (driver):	elektronický/electronic
Dimmable by conventional dimmers:	ne
Dimmable:	Ne
Ambiente temperature for max. luminous flux:	<0°C
Operating ambiente temperature - Ta °C:	45°C
Maximum permitted storage temperature:	80°C
Protection against overvoltage:	Ano
Type of cooler:	Plast/Plastic
Burning position:	Universal
Method of use:	Všeobecné osvětlování/General lighting

EuP Parameters

Rated service life:	20.000 h.
Average Lifetime B50:	20.000 h.
Energy consumption (AGGR) kWh / 1.000 h:	4,1
Luminescence Life maintenance factor :	
Factor of functional reliability (LSF) after nom. life:	
Turn-on time:	<0,1 s
GLS replacement:	32 W
Time to 60 % luminous flux:	<1 s
Number of maximal switching cycles:	>50.000
Colour difference:	<5%

Lighting characteristics

Lum. flux after 100 hrs. oper.:	350 lm
Nom. lum. flux:	350 lm
Beam angle:	330°
CCT:	3.000 K
Correlated colour temperature CCT (EM):	3.023 K
Color rendering:	1B
Colour Code:	830
Light Colour:	Teplá bílá/warmwhite
Dominant wavelength:	605 nm
Chromaticity coordinates x:	0,436
Chromaticity coordinates y:	0,407
Colour rendering index CRI:	>80 Ra8

Environmental characteristics

Maximum mercury content (mg):	0,00 mg
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Energetic characteristics

Lamp power factor:	0,42
Rated efficiency after 100h.:	99,99 %
Lamp efficacy (lm/W):	85,36

EuP regulations

Product is subject to EUP regulation:	Ano
Indication of regulation:	EC/244/2009
The rate of premature failures:	<1%

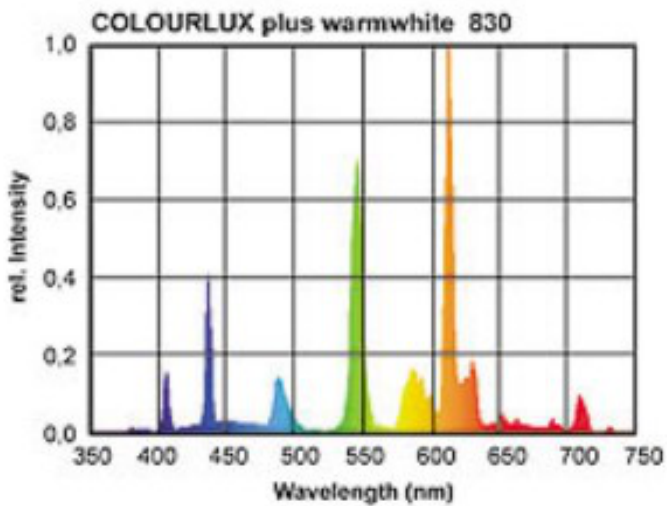
Mounting methods

Suitable for domestic use.:	ano
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Safety information

Protection against dangerous touching:	Dvojitá izolace
Safety instructions:	www.nbb.cz

Spectral curve



Description

LED Lamps CRYSTAL series are characterized by wide opening angle. The emitted light is spread in all directions similarly to the incandescent bulbs. The cover of the lamp is made from glass, which significantly differs this model from cheap plastic products. Clear glass allows maximum utilization of emitted light without loss. Modern design and very good technical and functional characteristics ranks this product among the best products in the market of light sources.

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